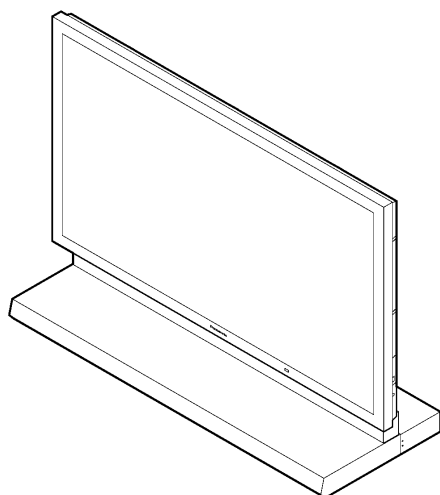


Service Manual

Pedestal for Plasma TV

TY-ST103PF9



Specifications

TY-ST103PF9 Frame part

Dimensions (W × D × H)

main body	$87 \frac{21}{64}$ " (2218 mm) × $31 \frac{1}{2}$ " (800 mm) × $40 \frac{7}{16}$ " (1027 mm)
with packing	$97 \frac{41}{64}$ " (2480 mm) × $38 \frac{25}{64}$ " (975 mm) × $9 \frac{1}{4}$ " (235 mm)

Mass (weight)

main body	121.3lb (55 kg)
with packing	169.8lb (77 kg)

TY-ST103PF9 Cover part

Dimensions (W × D × H)

main body	$89 \frac{3}{8}$ " (2270 mm) × $34 \frac{19}{64}$ " (871 mm) × $42 \frac{9}{32}$ " (1074 mm)
with packing	$95 \frac{23}{64}$ " (2422 mm) × $30 \frac{23}{32}$ " (780 mm) × $14 \frac{7}{32}$ " (361 mm)

Mass (weight)

main body	147.7lb (67 kg)
with packing	202.8lb (92 kg)

WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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1 Precautions with regard to setting up

WARNING

Ensure that the installation location is strong enough to support long-term use.

- If its strength becomes insufficient over the course of long-term use, the display may topple over, possibly causing injury.

Installation and removal should only be carried out by a qualified technician.

- If the pedestal is not installed correctly, the Plasma display may fall over and become damaged, and personal injury may result.

Do not disassemble or modify the pedestal

- Otherwise the unit may fall over and become damaged, and personal injury may result.

Do not install in a location that cannot support the entire load.

- If the strength of the installation surface is insufficient, the display may fall over and personal injury may result.

CAUTION

Do not use any displays other than those given in the catalogue.

- Otherwise the unit may fall over and become damaged, and personal injury may result.

Do not climb up onto the pedestal or use it as a step. (Young children should be made particularly aware of this caution.)

- If the unit falls over or becomes damaged through misuse, injury may result.

Keep the unit away from direct sunlight and heating equipment.

- Failure to do so may result in warping, deformation, or degradation of materials, and a loss of strength that may cause the equipment to fall over or break and cause injury.

Do not use the casters to moving purpose.

- These casters are used for adjustment purposes at the installation stage.
- If the casters are used to move the pedestal and plasma display, they may break, possibly causing injury.

Do not use the pedestal if it becomes warped or physically damaged.

- If you use the pedestal whilst it is physically damaged, personal injury may result.

Set up on a stable, level surface.

- If this is not done, the unit may fall over and become damaged, and personal injury may result.

Take steps to prevent toppling.

- Earthquakes or children climbing up or onto the display may cause the display to topple over, possibly resulting in injury.

When installing or removing the plasma display and pedestal, use a lowering device (machine), and ensure that the work is done by at least four persons.

- If four people are not present, the display may be dropped, and personal injury may result.
Mass (Weight) : Plasma display Approx. 220 kg (485 lbs.)
Mass (Weight) : Pedestal Approx. 122 kg (269 lbs.)

During setting-up, make sure that all screws are securely tightened

- If sufficient care is not taken to ensure screws are properly tightened during assembly, the pedestal will not be strong enough to support the Plasma Display, and it might fall over and become damaged, and personal injury may result.

Leave a space of at least 11 ¹³/₁₆ inches (30 cm) at the top, left and right, and at least 7 ⁷/₈ inches (20 cm) at the rear.

- Do not cover the air inlet holes at the bottom or rear of the display, or air outlet holes at the top, or a fire may result.

Requests regarding handling

- 1) If the unit is placed in direct sunlight or next to a stove, the light and heat may cause discoloration or deformation.
- 2) For cleaning, wipe the display using a soft dry cloth (made of cotton or flannel). If the unit is particularly dirty, clean it using a cloth soaked with water to which a small amount of neutral detergent has been added, and then wipe with a dry cloth. Do not use products such as solvents, thinner or household wax for cleaning, as they can damage the surface coating. (If using a chemically-treated cloth, follow the instructions supplied with the cloth.)
- 3) Do not attach sticky tape or labels, as they can make the surface of the pedestal dirty

Points to note during installation

- In order to ensure correct, problem-free operation of the Plasma Display, do not install the Display in any of the following places.
 - Near sprinklers or fire/smoke detectors.
 - Where there is a risk of exposure to vibration or impact.
 - Near high-voltage wires or dynamic power supplies.
 - Near sources of magnetism, heat, water vapor or soot.
 - Locations exposed to air blown from heating equipment.
 - Where droplets of condensation from an air conditioner or other unit may form.
- Insert the power cord plug for the Plasma Display into a wall outlet which is close and easily accessible.
- Provide adequate ventilation so that the temperature around the display does not rise above 40 °C (104 °F). If there is insufficient movement of the air inside display, heat may build up inside the display, and fire may result.
- Fit so there is no contact between the attachment bolts or power cord and any metal inside the wall.
- Spread a soft blanket or cloth over the floor so that the stand and floor will not be marked or scratched during the assembly and installation work.
- Perform the assembly and installation work on a flat and level surface, and follow the assembly and installation work instructions.
- When screwing down the parts, ensure that the screws are neither insufficiently tightened nor over tightened.
- Take sufficient care to ensure safety around you when performing the assembly and installation work or while moving about during the course of the work.
- Be sure to read and observe the "Precautions with regard to setting up".

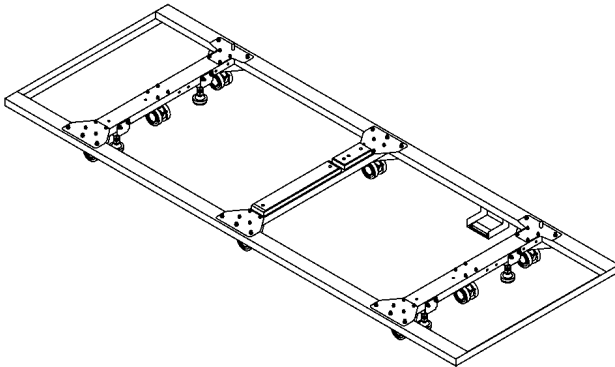
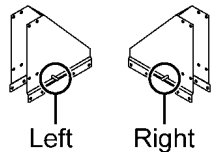
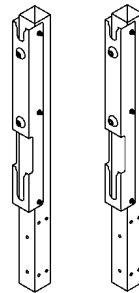
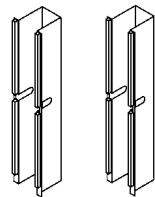
PROFESSIONAL INSTALLATION IS REQUIRED.

PANASONIC DISCLAIMS ANY PROPERTY DAMAGE AND/OR SERIOUS INJURY, INCLUDING DEATH RESULTING FROM IMPROPER INSTALLATION OR INCORRECT HANDLING.

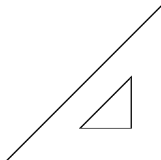

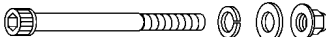

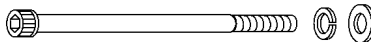


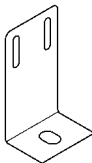
2 Constituent parts

2.1. Frame part

- Each pedestal comes in two separate packages: one contains the frame part, and the other contains the cover part.

Frame part		Check that all the parts are accounted for and present in their designated quantities.	
Main parts			
<div>Ⓐ Metal frame 1 pc</div> <div></div>		<div>Ⓑ Support brackets (left and right) 1 pc each</div> <div>(The positions of the pins show which is the left bracket and which the right one.)</div> <div></div> <div>Left Right</div>	
<div>Ⓒ Supports 2 pcs</div> <div>(The left and right supports are identical.)</div> <div></div>		<div>Ⓓ Grounding plates 2 pcs</div> <div>(The left and right grounding plates are identical.)</div> <div></div>	

Accessory parts

<div>For adjusting the display's perpendicularity</div> <div>① Triangle1 pc</div> <div></div>	<div>Assembly tool</div> <div>② Allen key (6 mm)1 pc</div> <div></div>	<div>③ Support bracket mounting hexagon bolts</div> <div>Spring washers</div> <div>Flat washers</div> <div>Flanged cap nuts</div> <div>(8 sets each)</div> <div></div> <div>(Black)</div> <div>(M8×90)</div>
<div>④ Support mounting hexagon bolts</div> <div>Spring washers</div> <div>Flat washers</div> <div>Flanged cap nuts</div> <div>(8 sets each)</div> <div></div> <div>(Black)</div> <div>(M8×80)</div>	<div>⑤ Display mounting hexagon bolts</div> <div>Spring washers</div> <div>Flat washers</div> <div>(4 sets each)</div> <div></div> <div>(Black)</div> <div>(M8×130)</div>	
<div>⑥ Boards (wooden)2 pcs</div> <div>(The left and right boards are identical.)</div> <div></div> <div>(Black)</div>	<div>⑦ Board mounting screws4 pcs</div> <div></div> <div>(Black)</div> <div>(M5×25)</div>	<div>⑧ Anchor brackets4 pcs</div> <div>(The front, back, left and right anchor brackets are identical.)</div> <div></div>

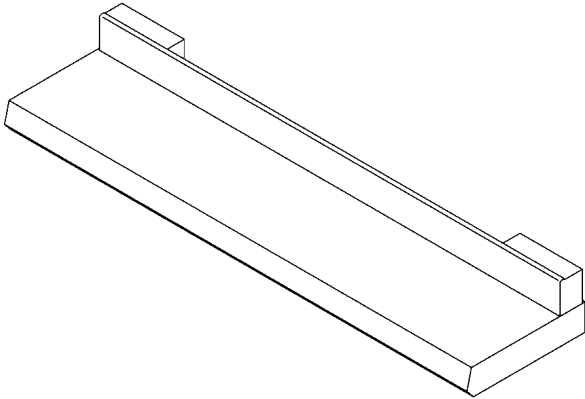
2.2. Cover part

Cover part

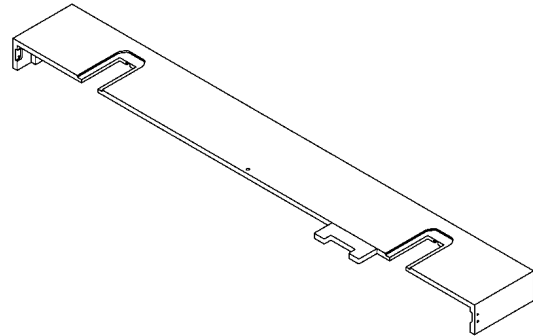
Check that all the parts are accounted for and present in their designated quantities.

Main parts

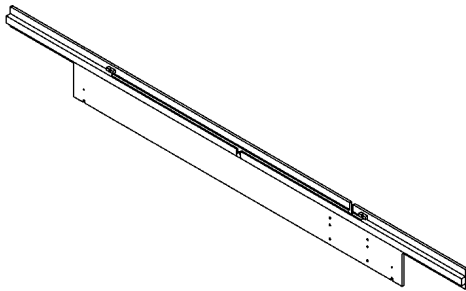
A Front cover 1 pc



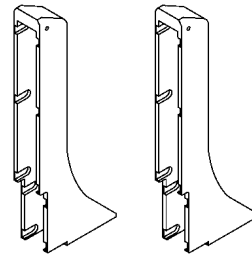
B Rear cover 1 pc



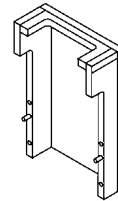
C Light shield 1 pc



D Support covers 2 pcs
(The left and right support covers are identical.)

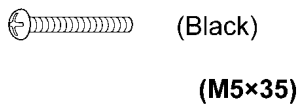


E Wiring cord cover 1 pc



Accessory parts

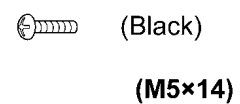
1 Light shield mounting screws 2 pcs
Rear cover mounting screw 1 pc
Support cover mounting screws 4 pcs



2 Wiring cord cover mounting screws 4 pcs



3 Front/rear cover mounting screws 4 pcs

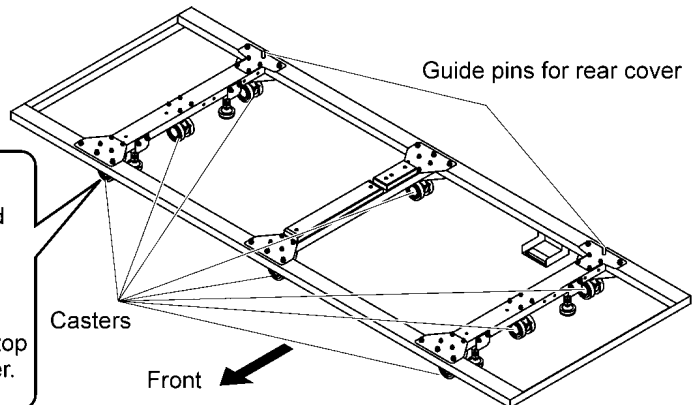
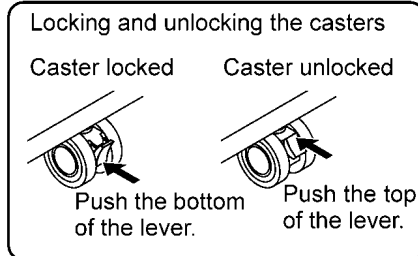


3 Assembly

3.1. Assembling the metal frame

- Check which side of the metal frame ① is the front and which side is the rear. The rear side is the one with the guide pins for the rear cover (to be positioned on the rear side of the plasma display).

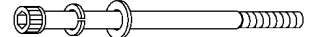
When the pedestal is shipped from the factory, the casters (x8) are locked in position so that the metal frame will not move.



Caution

Use the casters solely for adjusting the position of the stand: do not use them to move the stand around after installation.

Getting the hexagon bolts ready (8 sets each of support mounting hexagon bolts ④ and support bracket mounting hexagon bolts ③)



Get the hexagon bolts ready by passing them through the spring washers and flat washers in this order.

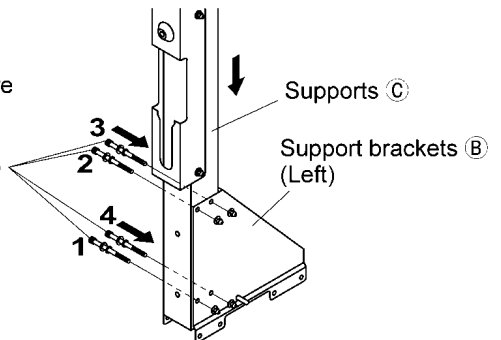
Caution

Use a tightening torque of 20 Nm to 24 Nm for the hexagon bolts.

- Assemble the supports ③ (1 at the left and 1 at the right) and support brackets ② (1 at the left and 1 at the right) using the support mounting hexagon bolts ④ (4 sets at the left and 4 sets at the right) in the numerical order shown in the illustration.**

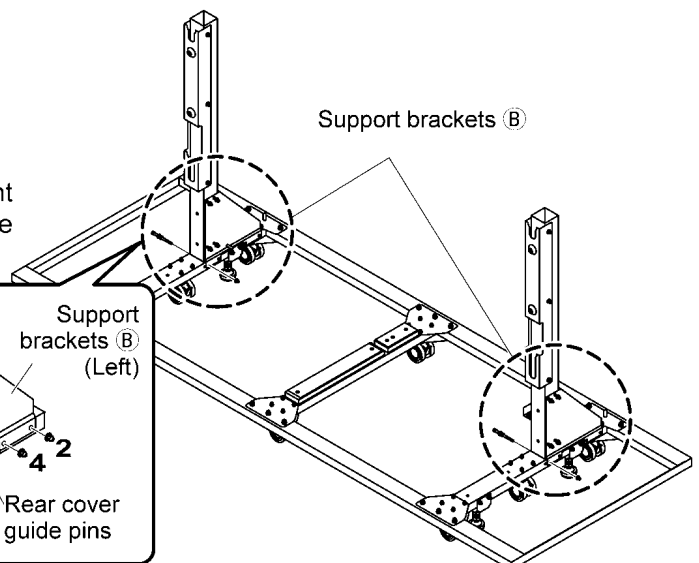
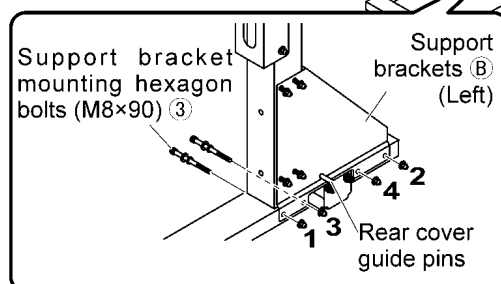
- Since the perpendicularity adjustment is performed in **step 3**, do not tighten the support mounting hexagon bolts ④ too securely.

Loosely secure the support mounting hexagon bolts (M8x80) ④.

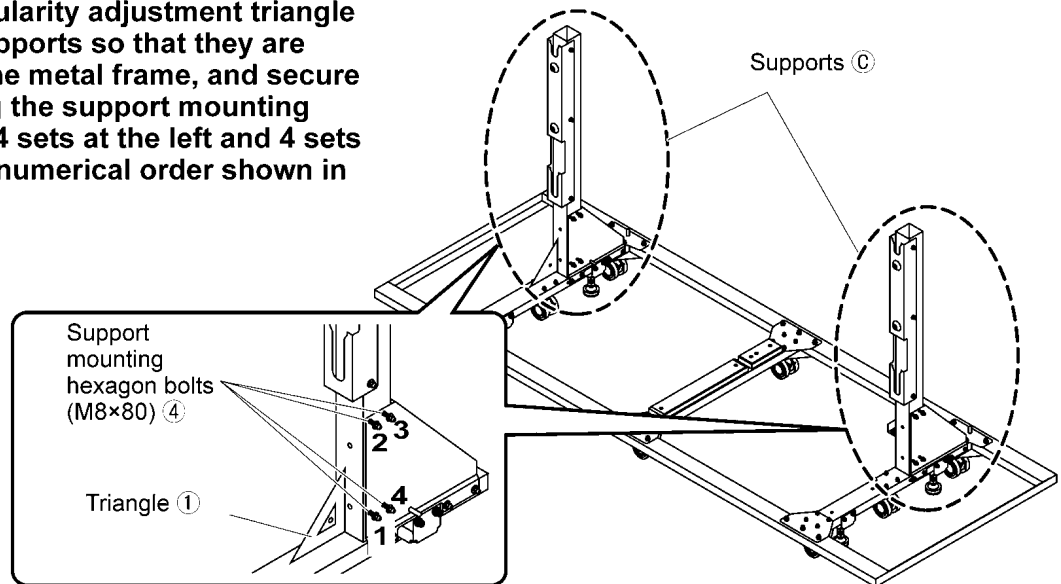


- Mount the support brackets ② (one each for the left and right) which were readied in step 1 on the metal frame ① using the support bracket mounting hexagon bolts ③ (4 sets each for the left and right).**

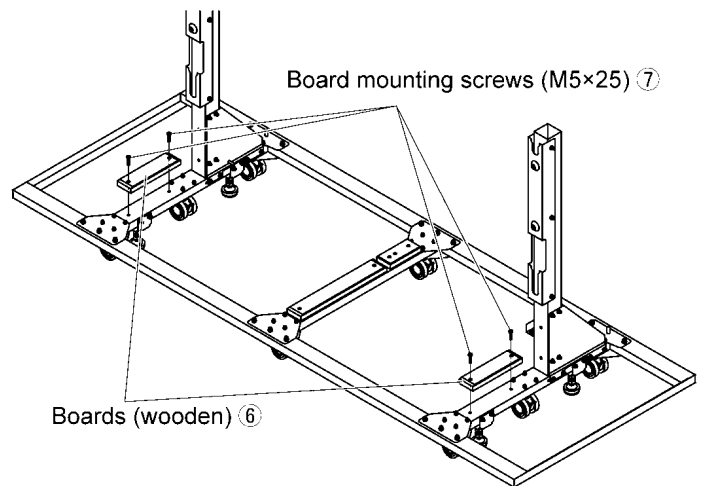
- With the rear cover guide pins on the inside, mount the support bracket mounting hexagon bolts in the numerical order shown in the illustration.



3. Use the perpendicularity adjustment triangle ① to adjust the supports so that they are perpendicular to the metal frame, and secure the supports using the support mounting hexagon bolts ④ (4 sets at the left and 4 sets at the right) in the numerical order shown in the illustration.



4. Mount the boards ⑥ (wooden; 1 at the left and 1 at the right) on the metal frame, and secure them using the board mounting screws ⑦ (M5×25) (2 at the left and 2 at the right).



This completes the assembly of the frame part.

Note

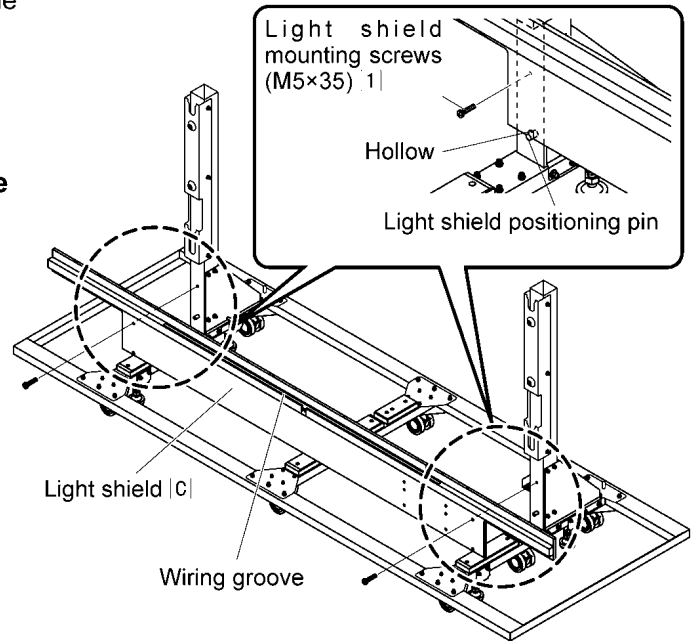
The following parts which have so far remained unused will be used to assemble the front cover and rear cover.

- Display mounting hexagon bolts (4 sets)
- Ground plates (2 pcs)
- Anchor brackets (4 pcs)

3.2. Mounting the light shield

- From this point on, the front cover and rear cover in the separate package are assembled.
Check the parts list for the covers.

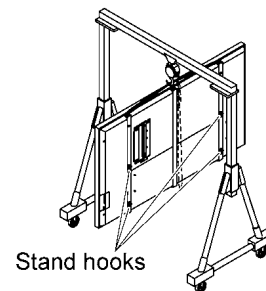
- With the wiring groove (used for the power cord and speaker cords) at the front, hook the indentations in the light shield **C** (2 at the left and 2 at the right) onto the light shield positioning pins on the supports, mount the light shield using the light shield mounting screws **1** (x2), and secure it.



3.3. Placing the plasma display on the pedestal

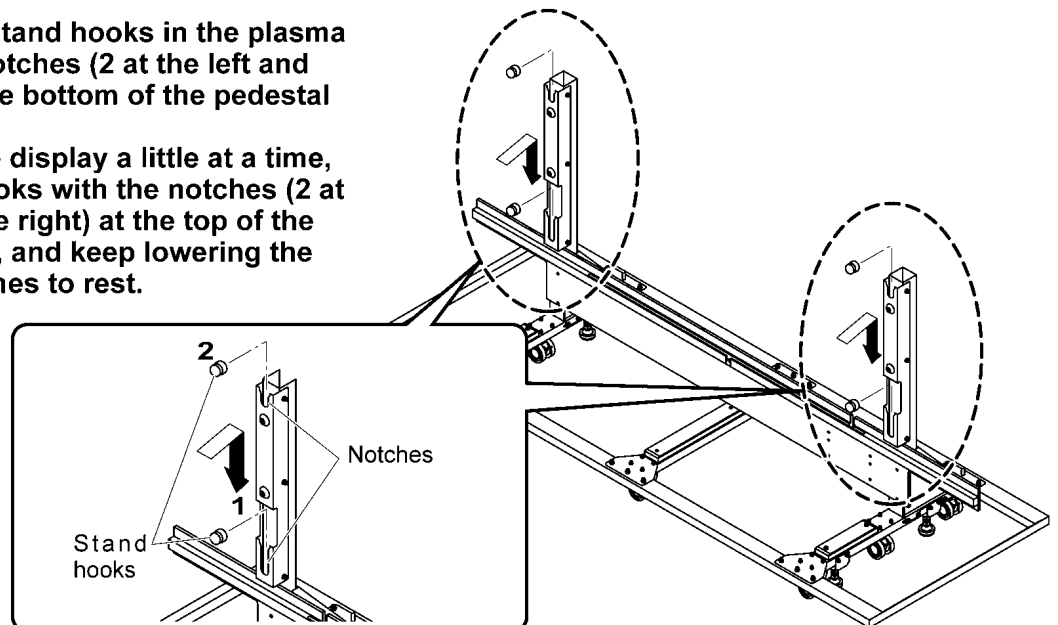
Caution

- The plasma display is heavy so use a device (machine) that will enable the plasma display to be lowered in place.
- The controls of the plasma display panel are located on the right side panel so ensure that they are not bumped into or knocked during the installation process.
- Align the stand hooks in the plasma display with the notches (x4) in the pedestal supports, and place the display on the stand.



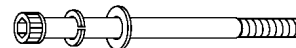
- First, engage the stand hooks in the plasma display with the notches (2 at the left and 2 at the right) at the bottom of the pedestal supports.

While lowering the display a little at a time, align the stand hooks with the notches (2 at the left and 2 at the right) at the top of the pedestal supports, and keep lowering the display until it comes to rest.



Getting the hexagon bolts ready (4 sets each of support mounting hexagon bolts ⑤)

Get the hexagon bolts ready by passing them through the spring washers and flat washers in this order.

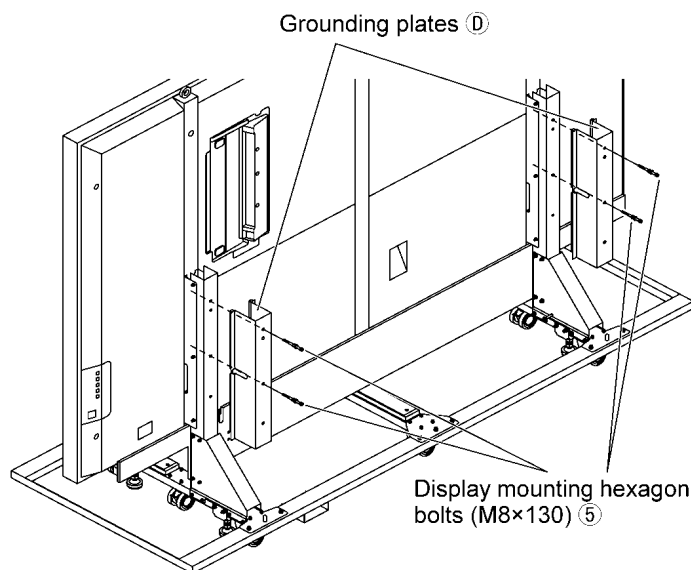


Caution

Use a tightening torque of 7 Nm to 9 Nm for the hexagon bolts.

2. Use the plasma display mounting hexagon bolts ⑤ (2 at the left and 2 at the right) to securely fasten both the ground plates ① and plasma display from the back of the supports.

- The ground plates ① and plasma display mounting hexagon bolts ⑤ are provided as accessory parts of the frame.



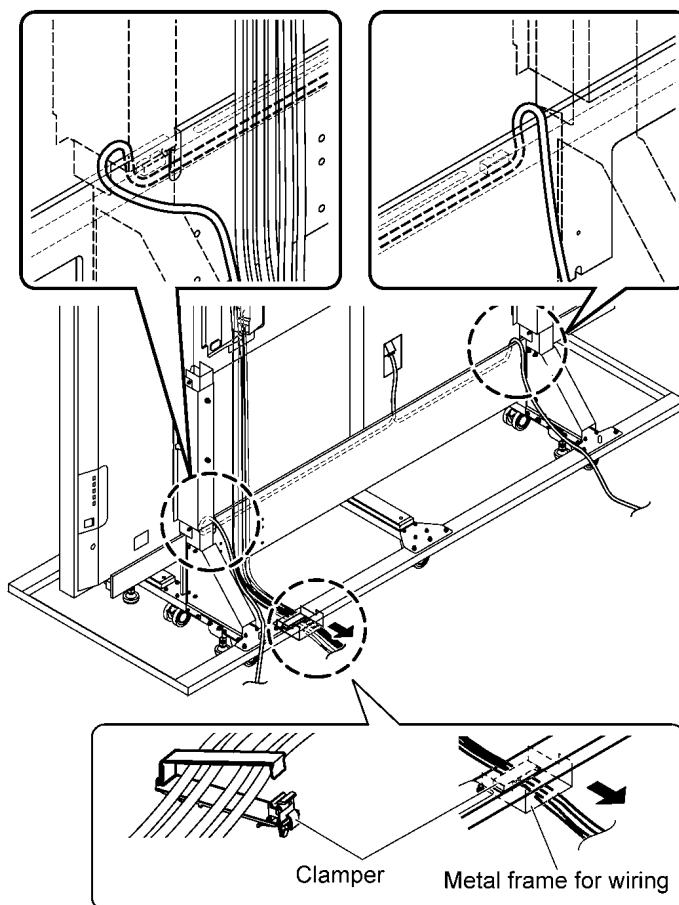
3.4. Wiring the equipment to be connected

- For details on how to install the equipment to be connected with the display or adding more equipment, refer to the operating instructions of the plasma display and the operating instructions of the equipment concerned.

1. If the equipment to be connected (such as an AV amplifier and DVD recorder) is to be installed at the same time for use, connect the plasma display wires first.
2. In connecting the wires of the antenna and equipment to be connected, and lead them out from underneath the metal frame. Run the cords along the clamber of the wiring metal piece under the back of the metal frame, and lead them out from behind the metal frame.
3. Run the power cord through either the left or right light shield groove.

Caution

Do not bundle the connection cables and main lead together.

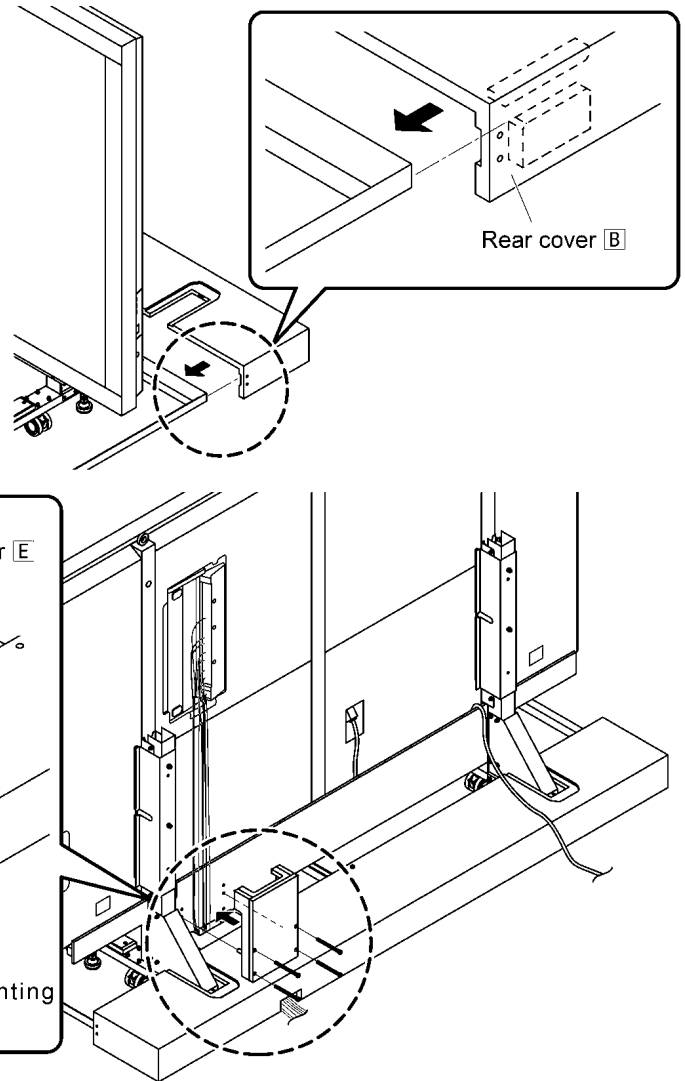


3.5. Mounting the rear cover and wiring cord cover

Caution

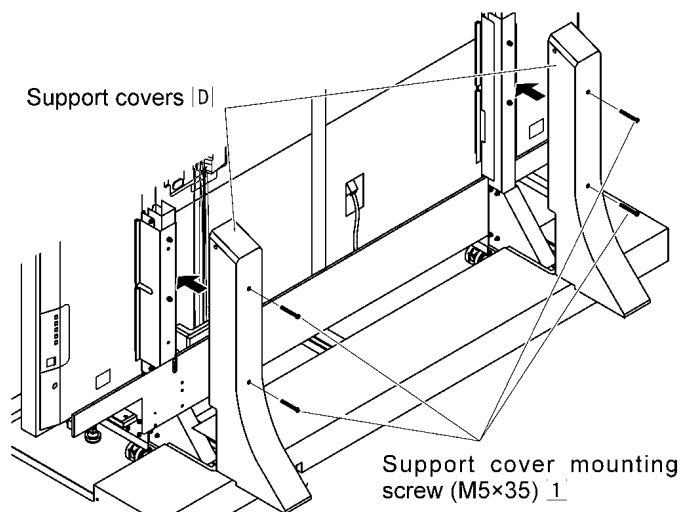
Mount the rear cover and wiring cord cover in such a way that the wires will not be pinched.

1. Raise the rear cover **B** slightly, align it with the left and right of the metal frame, and push it in until it will go no further.
2. Align the dowels on the wiring cord cover **E** with the dowel holes at the rear of the light shield, insert the dowels into the holes, and secure the cover to the light shield using the wiring cord cover mounting screws **2** (x4).



3.6. Mounting the support covers

1. Align the support covers **D** (1 at the left and 1 at the right) with the back surfaces of the supports, and secure the covers to the supports using the support cover mounting screws **1** (2 at the left and 2 at the right).
 - If the screw holes cannot be identified easily, move the support cover to the left or right, and adjust.



3.7. Concerning the steps taken to prevent toppling

- Measures to prevent the pedestal and the plasma display from toppling over include the following three methods. Select the method best suited to the installation location.

1. Securing with anchor bolts
2. Securing with wires or chains
3. Combination of methods 1 and 2 above

1. Securing with anchor bolts

- Move the pedestal to the position where the user wants it to be installed. (In order to anchor the stand, leave a gap where it will be possible to slide the rear cover more than 12 cm (4 ²³/₃₂ inches).)

1. Release the caster locks, and move the pedestal to its installation position.
2. After checking the installation position, lock the casters.
3. Check whether the plasma display is leaning. If it is, use the adjusters to set it upright.

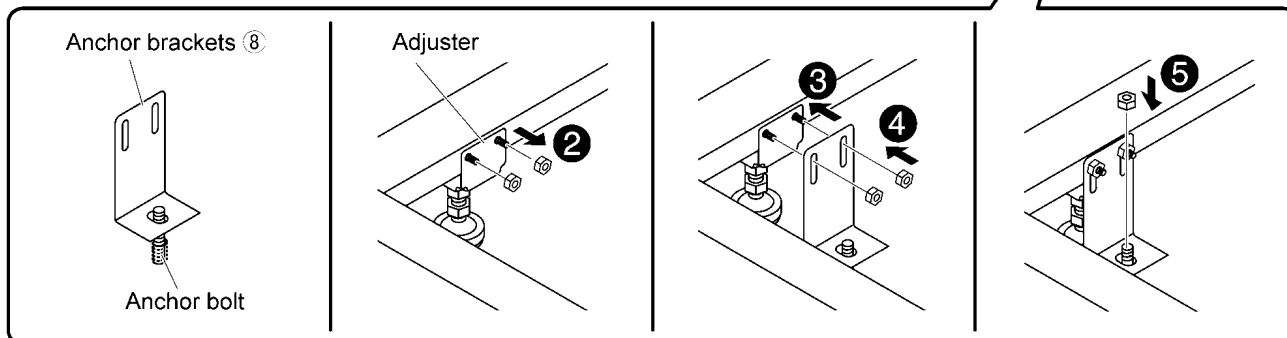
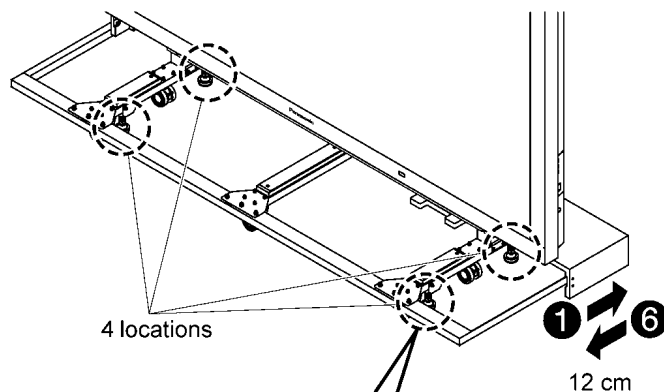
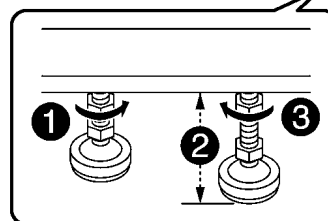
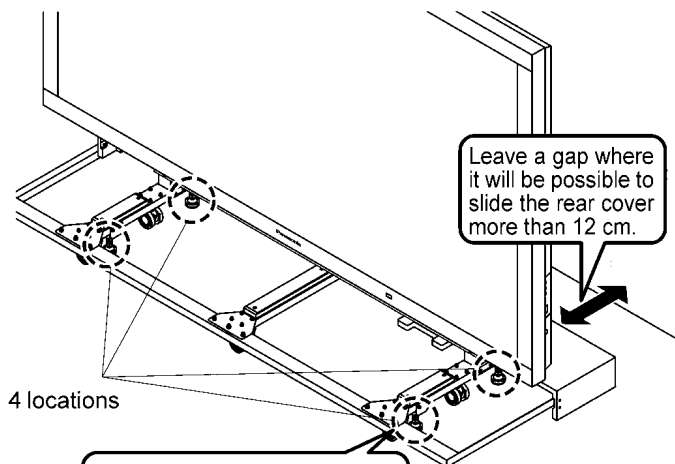
Adjustment procedure

- 1 Loosen the adjuster anchoring nuts.
- 2 Use the adjusters to change the height so that the inclination is adjusted.
- 3 Tighten up the adjuster anchoring nuts to fix them in place.

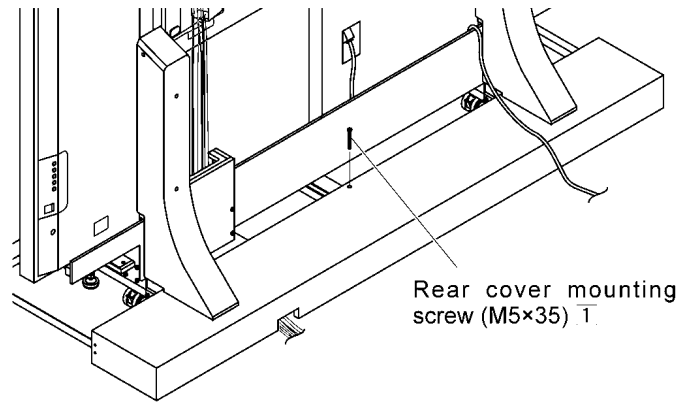
4. Tighten up the anchor brackets ⑧ (2 at the left and 2 at the right) which are provided as accessory parts of the frame part and the adjuster fixtures (nut side) together at the four locations on the outsides of the adjusters, and secure firmly.

Anchoring procedure

- 1 Slide the rear cover 12 cm toward the back.
- 2 Remove the adjuster nuts.
- 3 Attach the anchor brackets.
- 4 Secure the brackets using the nuts.
- 5 Secure the brackets using the anchor bolts.
- 6 Move the rear cover back to the front.

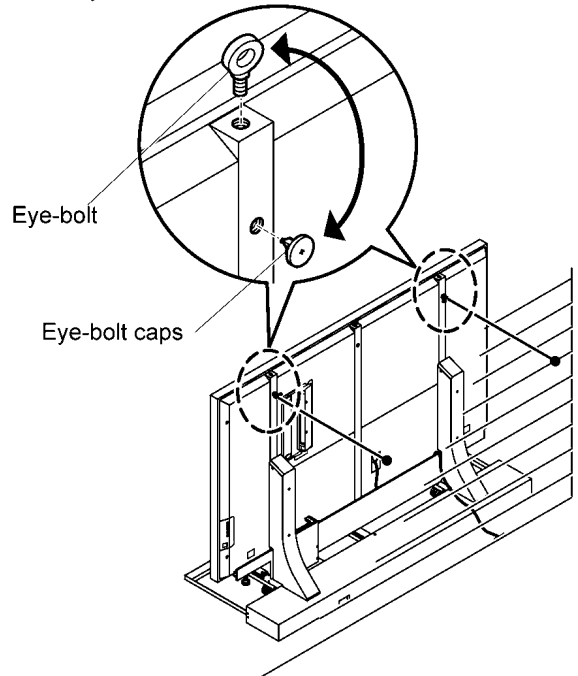
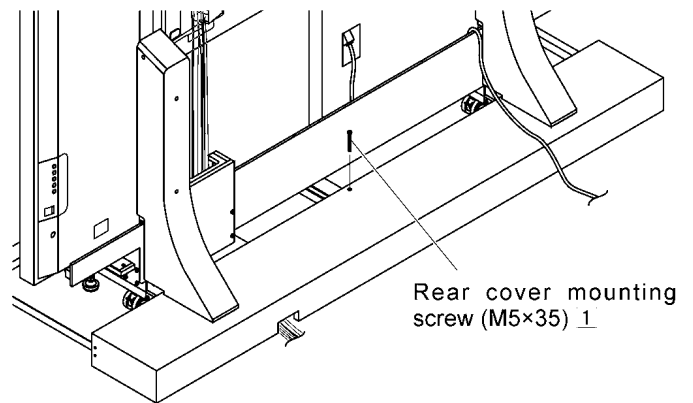


5. Use the rear cover mounting screw 1 (x1) to secure the rear cover.
6. When securing the pedestal using only anchor bolts, proceed to Step 8 "Mounting the front cover".



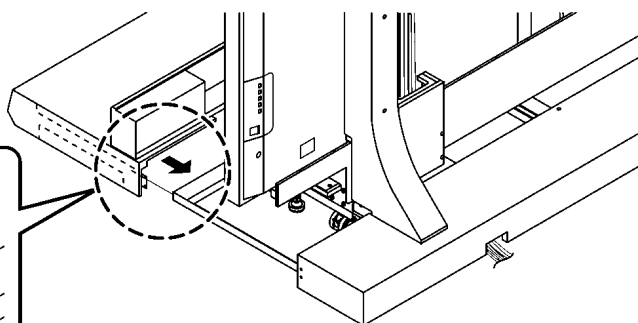
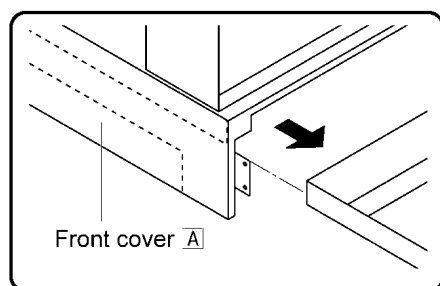
2. Securing with wires or chains

1. Use the rear cover mounting screw 1 (x1) to secure the rear cover.
2. Refer to 1. Securing with anchor bolts, then move the pedestal to the installation location, lock the casters, and adjust the tilting.
3. Remove the two eye-bolt caps at the left and right of the rear panel.
4. Attach the eye-bolts wherever the eye-bolt caps were removed.
5. Attach the eye-bolt caps wherever the eye-bolts were removed.
6. Fix it like an illustration.
 - Use strong wires or chains (with a breaking strength of at least 1.2 tones, commercially available) and fasten the plasma display to a sturdy wall, pillar, etc. firmly enough so that it will not come loose.

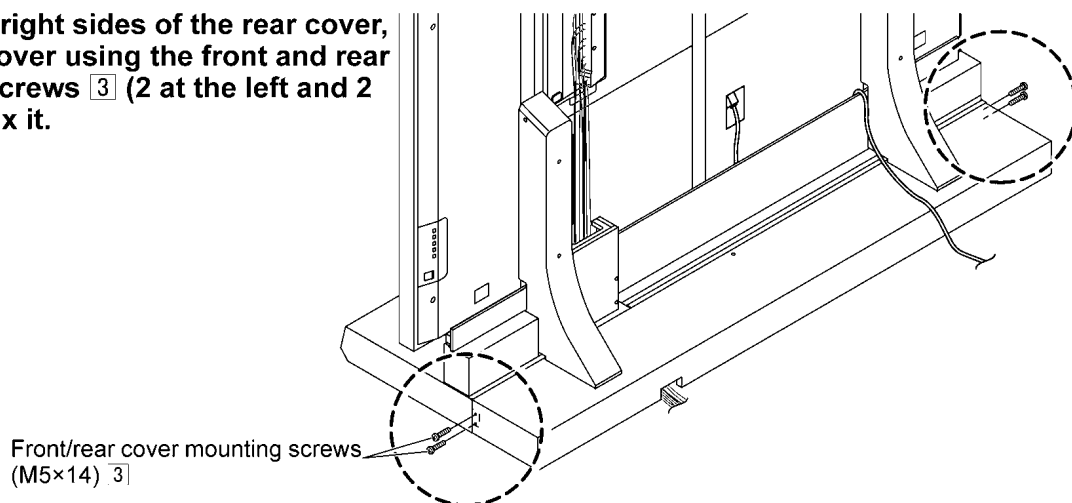


3.8. Mounting the front cover

1. Raise the front cover **A** slightly, align it with the left and right of the metal frame, and push it in until it will go no further.



2. From the left and right sides of the rear cover, mount the front cover using the front and rear cover mounting screws **3** (2 at the left and 2 at the right) and fix it.

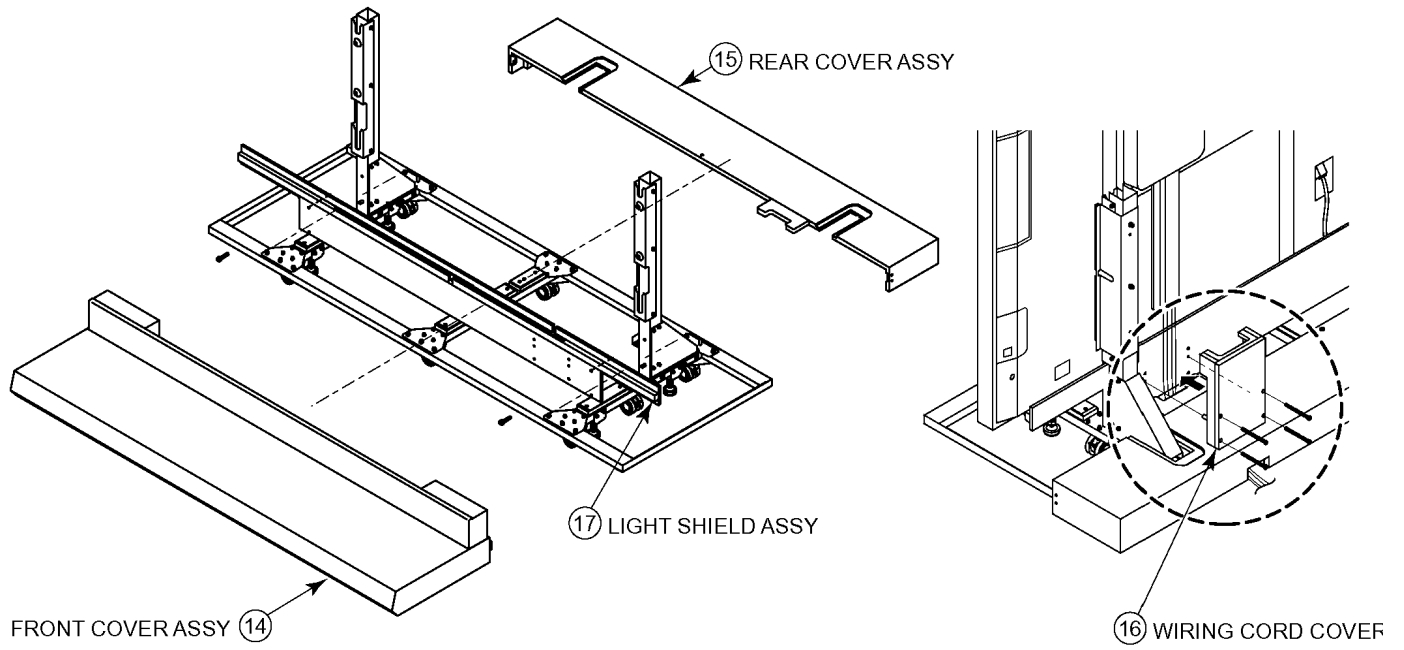


4 Replacement Parts List

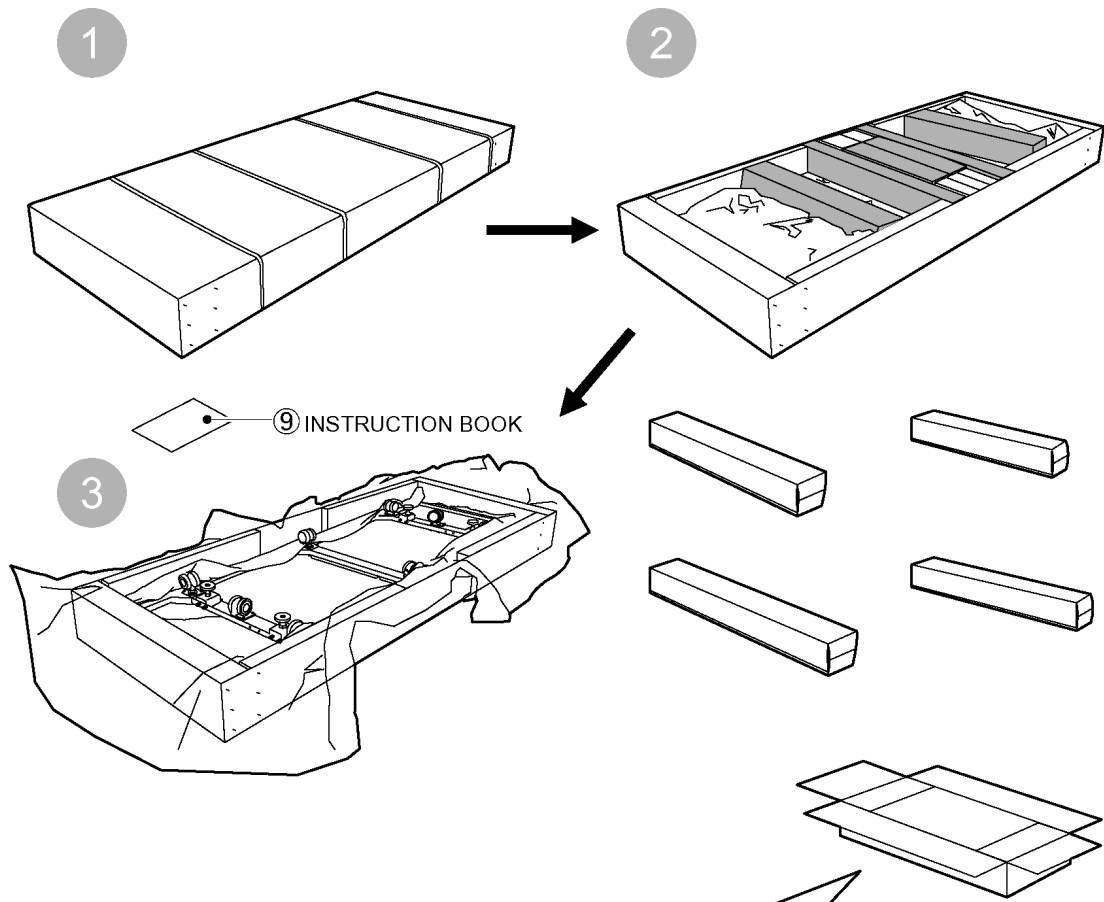
4.1. Parts List



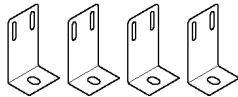
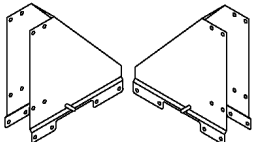
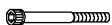
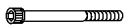
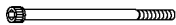




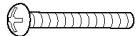
Ref. No.	Part No.	Part Name & Description	Pcs	Remarks
1	TBLA3486	ANCHOR BRACKET	4	
2	THEA159J	BOLT(M8-80)	8	
3	THEA160J	BOLT(M8-90)	8	
4	THEA161J	BOLT(M8-130)	4	
5	THNX051J	FLANGE DOMED CAP NUT(M8)	16	
6	THWA011J	SPRING WASHER	20	
7	THWC021J	WASHER	20	
8	TKKX0016	HEXAGON WRENCH(6mm)	1	
9	TQZH775	INSTRUCTION BOOK	1	
10	XST5+14FJK	SCREW(FOR FRONT COVER) M5X14	4	
11	XST5+25FJK	SCREW(FOR BOARD) M5X25	4	
12	XST5+35FJK	SCREW(FOR REAR COVER) M5X35	7	
13	XST5+55FJK	SCREW(FOR CABLE COVER) M5X55	4	
14	TBLH0629	FRONT COVER ASSY	1	
15	TBLH0630	REAR COVER ASSY	1	
16	TBLH3668	WIRING CORD COVER	1	
17	TBLH0637	LIGHT SHIELD ASSY	1	

4.2. Exploded View

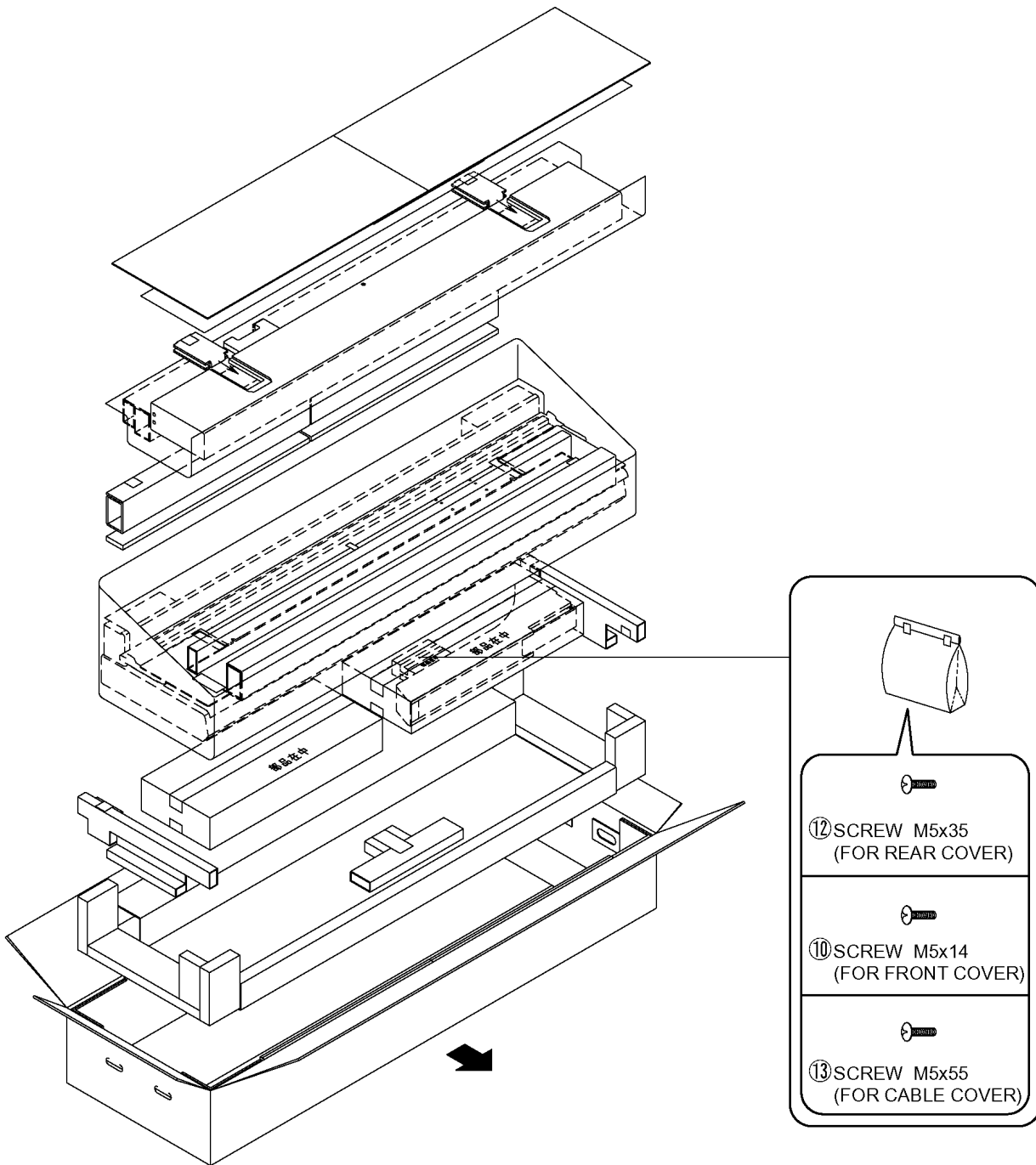


4.3. Packing summary (Frame part)



		<p>① ANCHOR BRACKET</p> 	
<p>② BOLT (M8-80)</p> 	<p>③ BOLT (M8-90)</p> 	<p>④ BOLT (M8-130)</p> 	<p>⑤ FLANGE DOMED CAP NUT (M8)</p> 
<p>⑥ SPRING WASHER</p> 	<p>⑦ WASHER</p> 	<p>⑧ HEXAGON WRENCH (6mm)</p> 	<p>⑪ SCREW (FOR BOARD) M5x25</p> 

4.4. Packing summary (Cover part)



5 External dimensions drawing

Unit : mm (inches)

